

## **AMENDMENTS TO THE SPECIFICATION:**

Please amend the specification as follows:

Please replace paragraph [068] with the following new paragraph:

--[068]       The CPU 230 computes the covariance matrix,  $R_{xx}$ , for an i-th segment of input samples by computing a partial covariance matrix for each block of input samples for the i-th segment. The partial covariance matrix computation may be computed for the upper half of the covariance matrix,  $R_{xx}$ , because the covariance matrix,  $R_{xx}$ , is conjugate symmetric. Computing the partial covariance matrix in this way may result in a saving of approximately half the computation time. When the CPU 230 has computed the partial covariance matrices for each block of input samples for the i-th segment of input samples, the CPU 230 adds the partial covariance matrices together to compute the upper half of the covariance matrix,  $R_{xx}$ . The remaining half of the covariance matrix,  $R_{xx}$ , is filled in by taking the complex conjugate of the i-th row and j-th column element and putting that value in the j-th row and i-th column of the covariance matrix,  $R_{xx}$ . Once the covariance matrix,  $R_{xx}$ , is computed, the CPU device 230 may compute the filter coefficients,  $\tilde{w}$ , by first executing an LU decomposition algorithm which triangularizes the covariance matrix,  $R_{xx}$  by decomposing it into the product of a lower-triangular matrix and an upper triangular matrix. Triangularization decomposes the linear system to be solved into two triangular systems of equations, which are solved recursively. Following LU decomposition, alternative algorithms may be used to compute the filter coefficients,  $\tilde{w}$ , for different operational conditions.  $\tilde{w}$ . For example, U.S. Application No. Serial No. 10/035,676 (now U.S. Patent No.

6,480,151), filed on even date herewith in the name of Khalil John Maalouf, Jeffrey Michael Ashe, and Naofal Al-Dhahir and entitled "A GPS Receiver Interference Nuller With No Satellite Signal Distortion," assigned to the assignee of the present application, which is hereby incorporated by reference, discloses algorithms that may be used to compute the filter coefficients,  $\tilde{w}$ .--